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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/851,410A

DATE: 12/04/2001 TIME: 12:15:47

Input Set : N:\Crf3\RULE60\09851410A.txt Output Set: N:\CRF3\12042001\1851410A.raw

SEQUENCE LISTING

3 (1) GENERAL INFORMATION:

```
ENTERED
      5
             (i) APPLICANT: Reyes, Gregory R
      б
                             Yarbough, Patrice O
      7
                             Bradley, Daniel W
      В
                             Krawczynski, Krzysztof Z
      9
                             Tam, Albert
     10
                             Fry, Kirk E
     12
            (ii) TITLE OF INVENTION: DNA Sequences of Enterically Transmitted
     13
                                      Non-A/Non-B Hepatitis Viral Agent
           (iii) NUMBER OF SEQUENCES: 20
     15
     17
            (iv) CORRESPONDENCE ADDRESS:
     18
                  (A) ADDRESSEE: Dehlinger & Associates
     19
                  (B) STREET: 350 Cambridge Avenue, Suite 250
     20
                  (C) CITY: Palo Alto
     21
                  (D) STATE: CA
     22
                  (E) COUNTRY: USA
     23
                  (F) ZIP: 94306
     25
             (V) COMPUTER READABLE FORM:
     26
                  (A) MEDIUM TYPE: Floppy disk
     27
                  (B) COMPUTER: IBM PC compatible
     28
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
     29
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
     31
            (vi) CURRENT APPLICATION DATA:
C--> 32
                  (A) APPLICATION NUMBER: US/09/851,410A
C--> 33
                  (B) FILING DATE: 07-May-2001
     59
           (vii) PRIOR APPLICATION DATA:
     36
                  (A) APPLICATION NUMBER: 09/128,275
     37
                  (B) FILING DATE: 1998-08-03
     40
                  (A) APPLICATION NUMBER: US 07/681,078
     41
                  (B) FILING DATE: 05-APR-1991
     44
                  (A) APPLICATION NUMBER: US 07/505,888
     45
                  (B) FILING DATE: 05-APR-1990
     48
                  (A) APPLICATION NUMBER: US 07/420,921
     49
                  (B) FILING DATE: 13-OCT-1989
     52
                  (A) APPLICATION NUMBER: US 07/367,486
     5.3
                  (B) FILING DATE: 16-JUN-1989
     56
                  (A) APPLICATION NUMBER: US 07/336,672
     57
                  (B) FILING DATE: 11-APR-1989
     60
                  (A) APPLICATION NUMBER: US 07/208,997
     61
                  (B) FILING DATE: 17-JUN-1988
     63
          (viii) ATTORNEY/AGENT INFORMATION:
     64
                  (A) NAME: Petithory, Joanne R.
     ⊊ =,
                  (B) REGISTRATION NUMBER: 42,995
     FŔ
                  (C) REFERENCE/DOCKET NUMBER: 4600-0183.24
     68
            (ix) TELECOMMUNICATION INFORMATION:
     \dot{\epsilon}
                  (A) TELEPHONE: (650) 324-0880
```





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Input Set : N:\Crf3\RULE60\09851410A.txt
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(B) TELEFAX: (650) 324-0960
     72 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     74
     7.5
                  (A) LENGTH: 1295 base pairs
     76
                  (B) TYPE: nucleic acid
     77
                  (C) STRANDEDNESS: double
     78
                  (D) TOPOLOGY: linear
            (ii) MOLECULE TYPE: DNA
W--> 80
     82
           (iii) HYPOTHETICAL: NO
     84
           (iv) ANTI-SENSE: NO
     86
            (vi) ORIGINAL SOURCE:
     87
                  (C) INDIVIDUAL ISOLATE: 1.33 kb EcoRI insert of ET1.1,
     88
                                           forward sequence
     90
           (ix) FEATURE:
                  (A) NAME/KEY: CDS
     91
     92
                  (B) LOCATION: 1..1293
     94
            (ix) FEATURE:
     95
                  (A) NAME/KEY: CDS
     96
                  (B) LOCATION: 2..1294
     98
            (ix) FEATURE:
     99
                  (A) NAME/KEY: CDS
     100
                   (B) LOCATION: 3..1295
             (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     105 AGACCTGTCC CTGTTGCAGC TGTTCTACCA CCCTGCCCCG AGCTCGAACA GGGCCTTCTC
                                                                                  60
     107 TACCTGCCCC AGGAGCTCAC CACCTGTGAT AGTGTCGTAA CATTTGAATT AACAGACATT
                                                                                 120
     109 GTGCACTGCC GCATGGCCGC CCCGAGCCAG CGCAAGGCCG TGCTGTCCAC ACTCGTGGGC
                                                                                 180
     111 CGCTACGGCG GTCGCACAAA GCTCTACAAT GCTTCCCACT CTGATGTTCG CGACTCTCTC
                                                                                 240
     113 GCCCGTTTTA TCCCGGCCAT TGGCCCCGTA CAGGTTACAA CTTGTGAATT GTACGAGCTA
                                                                                 300
     115 GTGGAGGCCA TGGTCGAGAA GGGCCAGGAT GGCTCCGCCG TCCTTGAGCT TGATCTTTGC
                                                                                 360
     117 AACCGTGACG TGTCCAGGAT CACCTTCTTC CAGAAAGATT GTAACAAGTT CACCACAGGT
                                                                                 420
    119 GAGACCATTG CCCATGGTAA AGTGGGCCAG GGCATCTCGG CCTGGAGCAA GACCTTCTGC
                                                                                 480
     121 GCCCTCTTG GCCCTTGGTT CCGCGCTATT GAGAAGGCTA TTCTGGCCCT GCTCCCTCAG
                                                                                 540
     123 GGTGTGTTTT ACGGTGATGC CTTTGATGAC ACCGTCTTCT CGGCGGCTGT GGCCGCAGCA
                                                                                 600
     125 AAGGCATCCA TGGTGTTTGA GAATGACTTT TCTGAGTTTG ACTCCACCCA GAATAACTTT
                                                                                 660
     127 TCTCTGGGTC TAGAGTGTGC TATTATGGAG GAGTGTGGGA TGCCGCAGTG GCTCATCCGC
                                                                                 720
     129 CTGTATCACC TTATAAGGTC TGCGTGGATC TTGCAGGCCC CGAAGGAGTC TCTGCGAGGG
                                                                                 780
     131 TTTTGGAAGA AACACTCCGG TGAGCCCGGC ACTCTTCTAT GGAATACTGT CTGGAATATG
                                                                                 840
     133 GCCGTTATTA CCCACTGTTA TGACTTCCGC GATTTTCAGG TGGCTGCCTT TAAAGGTGAT
                                                                                 900
     135 GATTCGATAG TGCTTTGCAG TGAGTATCGT CAGAGTCCAG GAGCTGCTGT CCTGATCGCC
                                                                                 960
     137 GGCTGTGGCT TGAAGTTGAA GGTAGATTTC CGCCCGATCG GTTTGTATGC AGGTGTTGTG
                                                                                1020
     139 GTGGCCCCG GCCTTGGCGC GCTCCCTGAT GTTGTGCGCT TCGCCGGCCG GCTTACCGAG
     141 AAGAATTGGG GCCCTGGCCC TGAGCGGGCG GAGCAGCTCC GCCTCGCTGT TAGTGATTTC
                                                                                1140
     143 CTCCGCAAGC TCACGAATGT AGCTCAGATG TGTGTGGATG TTGTTTCCCG TGTTTATGGG
                                                                                1200
     145 GTTTCCCCTG GACTCGTTCA TAACCTGATT GGCATGCTAC AGGCTGTTGC TGATGGCAAG
                                                                                1260
     147 GCACATTTCA CTGAGTCAGT AAAACCAGTG CTCGA
                                                                                1295
     150 (2) INFORMATION FOR SEQ ID NO: 2:
     152
             (i) SEQUENCE CHARACTERISTICS:
     153
                   (A) LENGTH: 431 amino acids
     154
                   (B) TYPE: amino acid
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PATENT APPLICATION: US/09/851,410A

Input Set : N:\Crf3\RULE60\09851410A.txt
Output Set: N:\CRF3\12042001\1851410A.raw

155			(I) T	OPOLO	DGY:	line	ar								
157		(ii) MOI	LECU:	LE T	YPE:	prot	tein								
159		(xi) SE(QUEN	CE DI	ESCR	IPTIC	ON: 3	SEQ :	ID NO	0: 2	:				
161	Arg	Pro	Val	Pro	Val	Ala	Ala	Val	Leu	Pro	Pro	Cys	Pro	Glu	Leu	Glu
162	1				5					10					15	
164	Gln	Gly	Leu	Leu	Tyr	Leu	Pro	Gln	Glu	Leu	Thr	Thr	Cys	Asp	Ser	Val
165				20					25					30		
167	Val	Thr	Phe	Glu	Leu	Thr	Asp	Ile	Val	His	Cys	Arg	Met	Ala	Ala	Pro
168			35					40					4.5			
170	Ser	Gln	Arg	Lys	Ala	Val	Leu	Ser	Thr	Leu	Val	Gly	Arg	Tyr	Gly	Gly
171		50					55					60				
173	Arg	Thr	Lys	Leu	Tyr	Asn	Ala	Ser	His	Ser	Asp	Vāl	Arg	Asp	Ser	Leu
174	65					70					75					80
176	Ala	Arg	Phe	Ile	Pro	Ala	Ile	Gly	Pro	Val	Gln	Vāl	Thr	Thr	Cys	Glu
177					85					90					95	
179	Leu	Tyr	Glu	Leu	Val	Glu	Ala	Met	Val	Glu	Lys	Gly	Gln	Asp	Gly	Ser
180				100					105					110		
182	Ala	Val	Leu	Glu	Leu	Asp	Leu	Cys	Asn	Arg	Asp	Vāl	Ser	Arg	Ile	Thr
183			115					120					125			
185	Phe	Phe	Gln	Lys	Asp	Cys	Asn	Lys	Phe	Thr	Thr	Gly	Glu	Thr	Ile	Ala
186		130					135					140				
188	His	Gly	Lys	Val	Gly	Gln	Gly	Ile	Ser	Ala	Trp	Ser	Lys	Thr	Phe	Cys
189	145					150					155					160
191	Ala	Leu	Phe	Gly	Pro	Trp	Phe	Arg	Ala	Ile	Glu	Lys	Ala	Ile	Leu	Ala
192					165					170					175	
194	Leu	Leu	Pro	Gln	Gly	Val	Phe	Tyr	Gly	Asp	Ala	Phe	Asp	Asp	Thr	Val
195				180					185					190		
197	Phe	Ser	Ala	Ala	Val	Ala	Ala	Ala	Lys	Ala	Ser	Met	Val	Phe	Glu	Asn
198			195					200					205			
200	Asp	Phe	Ser	Glu	Phe	Asp	Ser	Thr	Gln	Asn	Asn	Phe	Ser	Leu	Gly	Leu
201		210					215					220				
203	Glu	Cys	Ala	Ile	Met	Glu	Glu	Cys	Gly	Met.	Pro	Gln	Trp	Leu	Ile	Arg
	225					230					235					240
206	Leu	Tyr	His	Leu	Ile	Arg	Ser	Ala	Trp	Ile	Leu	Gln	Ala	Pro	Lys	Glu
207					245					250					255	
209	Ser	Leu	Arg	Glγ	Phe	Trp	Lys	Lys	His	Ser	Gly	Glu	Pro	Gly	Thr	Leu
210				260					265					270		
	Leu	Trp		Thr	Val	Trp	Asn		Ala	Val	Ile	Thr		Cys	Tyr	Asp
213			275					280					285			
	Phe	Arg	Asp	Phe	Gln	Val	Ala	Ala	Phe	Lys	Gly	Asp	Asr	Ser	Ile	Val
216		290					295					300				
		Cys	Ser	Glu	Tyr	Arg	Gln	Ser	Pro	Gly	Ala	Ala	Val	Leu	Ile	Ala
	305					310					315					320
	Gly	Cys	Gly	Leu	Lys	Leu	Lys	Val	Asp	Phe	Arg	Pro	Ile	Gly	Leu	Tyr
222					325					330					335	
	Ala	Gly	Val		Val	Ala	Pro	Gly	Leu	Gly	Ala	Leu	Pro		Val	Val
225				340					345					350		- 5
	Arg	Phe		Glγ	Arg	Leu	Thr		Lys	Asn	Trp	Gly		Gly	Pro	Glu
228			355					360					365			





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230 Arg Ala Glu Gln Leu Arg Leu Ala Val Ser Asp Phe Leu Arg Lys Leu 375 370 233 Thr Asn Val Ala Gln Met Cys Val Asp Val Val Ser Arg Val Tyr Gly 234 385 390 395 236 Val Ser Pro Gly Leu Val His Asn Leu Ile Gly Met Leu Gln Ala Val 405 410 239 Ala Asp Gly Lys Ala His Phe Thr Glu Ser Val Lys Pro Val Leu 425 430 240 420 243 (2) INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: 245 246 (A) LENGTH: 18 base pairs 247 (B) TYPE: nucleic acid 248 (C) STRANDEDNESS: single 249 (D) TOPOLOGY: linear W--> 251 (ii) MOLECULE TYPE: DNA 253 (iii) HYPOTHETICAL: NO 255 (iv) ANTI-SENSE: NO 257 (vi) ORIGINAL SOURCE: 258 (C) INDIVIDUAL ISOLATE: linker - top (5') sequence 260 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: 18 262 GGAATTCGCG GCCGCTCG 265 (2) INFORMATION FOR SEQ ID NO: 4: 267 (i) SEQUENCE CHARACTERISTICS: 268 (A) LENGTH: 20 base pairs 269 (B) TYPE: nucleic acid 270 (C) STRANDEDNESS: single 271 (D) TOPOLOGY: linear W--> 273(ii) MOLECULE TYPE: DNA 275 (iii) HYPOTHETICAL: NO 277 (iv) ANTI-SENSE: NO 279 (vi) ORIGINAL SOURCE: 280 (C) INDIVIDUAL ISOLATE: linker - bottom (3') sequence 282 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4: 284 CGAGCGGCCG CGAATTCCTT 20 286 (2) INFORMATION FOR SEQ ID NO: 5: (i) SEQUENCE CHARACTERISTICS: 288 289 (A) LENGTH: 1295 base pairs 290 (B) TYPE: nucleic acid 291 (C) STRANDEDNESS: double 292 (D) TOPOLOGY: linear W--> 294 (ii) MOLECULE TYPE: DNA 296 (iii) HYPOTHETICAL: NO 298 (iv) ANTI-SENSE: NO 300 (vi) ORIGINAL SOURCE: 301 (C) INDIVIDUAL ISOLATE: 1.33 kb EcoRI insert of ET1.1, 302 reverse sequence (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5: 305 307 TOGAGCACTG GTTTTACTGA CTCAGTGAAA TGTGCCTTGC CATCAGCAAC AGCCTGTAGC 60 309 ATGCCAATCA GGTTATGAAC GAGTCCAGGG GAAACCCCAT AAACACGGGA AACAACATCC 120





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Input Set : $N:\Crf3\RULE60\09851410A.txt$ Output Set: $N:\CRF3\12042001\1851410A.raw$

		ACACACATCT						180
		TGCTCCGCCC						340
		ACAACATCAG						300
		GGGCGGAAAT						365
	319	CTCTGACGAT	ACTCACTGCA	AAGCACTATC	GAATCATCAC	CTTTAAAGGC	AGCCACCTGA	4.2%
	321	AAATCGCGGA	AGTCATAACA	GTGGGTAATA	ACGGCCATAT	TCCAGACAGT	ATTCCATAGA	480
	323	AGAGTGCCGG	GCTCACCGGA	GTGTTTCTTC	CAAAACCCTC	GCAGAGACTC	CTTCGGGGCC	54 🗇
	325	TGCAAGATCC	ACGCAGACCT	TATAAGGTGA	TACAGGCGGA	TGAGCCACTG	CGGCATCCCA	6.0%
	327	CACTCCTCCA	TAATAGCACA	CTCTAGACCC	AGAGAAAAGT	TATTCTGGGT	GGAGTCAAAC	660
	329	TCAGAAAAGT	CATTCTCAAA	CACCATGGAT	GCCTTTGCTG	CGGCCACAGC	CGCCGAGAAG	720
	331	ACGGTGTCAT	CAAAGGCATC	ACCGTAAAAC	ACACCCTGAG	GGAGCAGGGC	CAGAATAGCC	780
	333	TTCTCAATAG	CGCGGAACCA	AGGGCCAAAG	AGGGCGCAGA	AGGTCTTGCT	CCAGGCCGAG	840
	335	ATGCCCTGGC	CCACTTTACC	ATGGGCAATG	GTCTCACCTG	TGGTGAACTT	GTTACAATCT	900
	337	TTCTGGAAGA	AGGTGATCCT	GGACACGTCA	CGGTTGCAAA	GATCAAGCTC	AAGGACGGCG	960
	339	GAGCCATCCT	GGCCCTTCTC	GACCATGGCC	TCCACTAGCT	CGTACAATTC	ACAAGTTGTA	1020
	341	ACCTGTACGG	GGCCAATGGC	CGGGATAAAA	CGGGCGAGAG	AGTCGCGAAC	ATCAGAGTGG	1080
	343	GAAGCATTGT	AGAGCTTTGT	GCGACCGCCG	TAGCGGCCCA	CGAGTGTGGA	CAGCACGGCC	1140
	345	TTGCGCTGGC	TCGGGGCGGC	CATGCGGCAG	TGCACAATGT	CTGTTAATTC	AAATGTTACG	1200
	347	ACACTATCAC	AGGTGGTGAG	CTCCTGGGGC	AGGTAGAGAA	GGCCCTGTTC	GAGCTCGGGG	1260
	349	CAGGGTGGTA	GAACAGCTGC	AACAGGGACA	GGTCT			1295
	352	(2) INFORMA	TION FOR SE	EQ ID NO: 6	:			
	354	(i) SE	QUENCE CHAP	RACTERISTICS	5:			
	355	(A) LENGTH:	7195 base ;	pairs			
	356	•	B) TYPE: nu	_	•			
W>	367	,	•		- Burma stra	ain		
M>	367 358	Ċ	•	NESS: HEV	- Burma stra	ain		
W>	358	((C) STRANDER D) TOPOLOGY	ONESS: HEV 7: linear	- Burma stra	ain		
	358	(ii) MO	C) STRANDEI	ONESS: HEV 7: linear E: DNA	- Burma stra	ain		
	358 360	(ii) MO (iii) HY	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL:	ONESS: HEV - 7: linear E: DNA : NO	- Burma stra	ain		
	358 360 362	(ii) MO (iii) HY (iv) AN	C) STRANDEI D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N	ONESS: HEV (7: linear E: DNA : NO	- Burma stra	ain		
	358 360 362 364	(ii) MO (iii) HY (iv) AN (vi) OR	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N RIGINAL SOUR	ONESS: HEV (7: linear E: DNA : NO	- Burma stra	ain		
	358 360 362 364 366	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE	C) STRANDEI D) TOPOLOGY LECULE TYPE POTHETICAL: ITI-SENSE: N GIGINAL SOUE	ONESS: HEV 7: linear E: DNA : NO NO RCE:	- Burma stra	ain		
	358 360 362 364 366 369	(iii) MO (iii) HY (iv) AN (vi) OR (ix) FE	C) STRANDEI D) TOPOLOGY DECULE TYPE POTHETICAL: ITI-SENSE: N GIGINAL SOUE ATURE: A) NAME/KEY	ONESS: HEV (: linear E: DNA : NO NO RCE:	- Burma stra	ain		
	358 360 362 364 366 369 370	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE	C) STRANDED D) TOPOLOGY DECULE TYPE POTHETICAL: ITI-SENSE: N RIGINAL SOUE ATURE: A) NAME/KEY B) LOCATION	ONESS: HEV (: linear E: DNA : NO NO RCE:	- Burma stra	ain		
	358 360 362 364 366 369 370 371	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE	C) STRANDED D) TOPOLOGY DECULE TYPE POTHETICAL: ITI-SENSE: N RIGINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE:	ONESS: HEV (: linear E: DNA : NO NO RCE: (: CDS N: 285106	- Burma stra	ain		
	358 360 362 364 366 369 370 371 373 374	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE	C) STRANDED D) TOPOLOGY DECULE TYPE POTHETICAL: ITI-SENSE: N RIGINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY	ONESS: HEV (: linear E: DNA : NO NO RCE: (: CDS N: 285106		ain		
	358 360 362 364 366 369 370 371 373	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE ((ix) FE	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: ITI-SENSE: N RIGINAL SOUR ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION	ONESS: HEV (: linear E: DNA : NO NO RCE: (: CDS N: 285106		ain		
	358 360 362 364 366 370 371 373 374 375	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE ((ix) FE ((ix) FE	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: ITI-SENSE: N SATURE: A) NAME/KEY B) LOCATION SATURE: A) NAME/KEY B) LOCATION SATURE: A) NAME/KEY B) LOCATION SATURE:	ONESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712		ain		
	358 360 362 364 366 369 370 371 373 374 375 377	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE ((ix) FE ((ix) FE	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N RIGINAL SOUR ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY	ONESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712	26	ain		
	358 360 362 364 366 370 371 373 374 375 377 378 379	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE (ix) FE (ix) FE (ix) FE (ix) FE	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N RIGINAL SOUF ATURE: A) NAME/KEY B) LOCATION	DNESS: HEV (C)	2 6			
	358 360 362 364 366 370 371 373 374 375 377 378 379 382	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N RIGINAL SOUF ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CQUENCE DESC	DNESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712 C: CDS N: 510654	26 74 EQ ID N O: 6	:	GGCTCCTGGC	6.0
	358 360 362 364 366 370 371 373 374 375 377 378 382 384	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE (ix) FE (ix) FE (ix) FE (ix) FE	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N RIGINAL SOUE ATURE: A) NAME/KEY B) LOCATION RATURE: CATATGTGGT	ONESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712 C: CDS N: 510654 CRIPTION: SI CGATGCCATG	26 74 EQ ID NO: 6 GAGGCCCATC	: AGTTTATTAA		60 120
	358 360 362 364 366 370 371 373 374 375 377 378 379 382 384 386	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE (ix) FE (ix) FE (ix) FE (ix) SE AGGCAGACCA ATCACTACTG	C) STRANDER D) TOPOLOGY LECULE TYPE POTHETICAL: TI-SENSE: N GINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: CATATGGGT CTATTGAGCA	DNESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 514771 C: CDS R: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA	26 74 EQ ID NO: 6 GAGGCCCATC GCAGCGGCCA	: AGTTTATTAA ACTCTGCCCT	GGCGAATGCT	120
	358 360 362 364 366 370 371 373 374 375 377 378 379 382 384 386 388	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE (ix) FE (ix) FE (ix) FE (ix) SE AGGCAGACCA ATCACTACTG GTGGTAGTTA	C) STRANDER D) TOPOLOGY DECULE TYPE POTHETICAL: TI-SENSE: N GINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: CATATOR CA	DNESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 514771 C: CDS R: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA CTCTCACCAG	74 EQ ID NO: 6 GAGGCCCATC GCAGCGGCCA CAGATTGAGA	: AGTTTATTAA ACTCTGCCCT TCCTCATTAA	GGCGAATGCT CCTAATGCAA	120 180
	358 360 362 364 366 370 371 373 374 375 377 382 384 386 388 390	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE ((ix) FE ((ix) FE ((ix) FE ((xi) FE AGGCAGACCA ATCACTACTG GTGGTAGTTA CCTCGCCAGC	C) STRANDER D) TOPOLOGY DLECULE TYPE POTHETICAL: ITI-SENSE: N IGINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY CATATGTGGT CTATTGTTTTCCG	DNESS: HEV C: linear C: DNA E: NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712 C: CDS N: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA CTCTCACCAG CCCCGAGGTT	74 EQ ID NO: 6 GAGGCCCATC GCAGCGGCCA CAGATTGAGA TTCTGGAATC	: AGTTTATTAA ACTCTGCCCT TCCTCATTAA ATCCCATCCA	GGCGAATGCT CCTAATGCAA GCGTGTCATC	120 180 240
	358 360 362 364 366 370 371 373 374 375 377 382 384 386 388 390 392	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE GGGCAGACCA ATCACTACTG GTGGTAGTTA CCTCGCCAGC CATAACGAGC	C) STRANDER D) TOPOLOGY DLECULE TYPE POTHETICAL: ITI-SENSE: N IGINAL SOUF ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY CATATGTGT CTATTGTTTCCG TGGAGCTTTA	DNESS: HEV (: linear E: DNA : NO NO RCE: (: CDS N: 285106 (: CDS N: 5147712 (: CDS N: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA CTCTCACCAG CCCCGAGGTT CTGCCGCGCC	74 EQ ID NO: 6 GAGGCCCATC GCAGCGGCCA CAGATTGAGA TTCTGGAATC CGCTCCGGCC	: AGTTTATTAA ACTCTGCCCT TCCTCATTAA ATCCCATCCA GCTGTCTTGA	GGCGAATGCT CCTAATGCAA GCGTGTCATC AATTGGCGCC	120 180 240 300
	358 360 362 364 369 370 371 373 374 375 377 384 388 390 392 394	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE (Carrier Carrier Carri	C) STRANDED D) TOPOLOGY DLECULE TYPE POTHETICAL: ITI-SENSE: N GINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: CATATGTGGT CTATTGTGTTCT TTGTTTTCCG TGGAGCTTTA CAATAAATGA	DNESS: HEV C: linear C: DNA NO RCE: C: CDS N: 285106 C: CDS N: 5147712 C: CDS N: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA CTCTCACCAG CCCCGAGGTT CTGCCGCGCC TAATCCTAAT	74 EQ ID NO: 6 GAGGCCCATC GCAGCGGCCA CAGATTGAGA TTCTGGAATC CGCTCCGGCC GTGGTCCACC	AGTTTATTAA ACTCTGCCCT TCCTCATTAA ATCCCATCCA GCTGTCTTGA GCTGCTTCCT	GGCGAATGCT CCTAATGCAA GCGTGTCATC AATTGGCGCC CCGCCCTGTT	120 180 240 300 360
	358 360 362 364 369 370 371 373 374 375 377 382 384 386 390 394 396	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE ((ix) FE ((ix) FE ((ix) FE ((ix) FE ((ix) FE (Carrier Carrier Carrie	C) STRANDED D) TOPOLOGY DLECULE TYPE POTHETICAL: ITI-SENSE: N GINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY B) LOCATION CATURE: TOTATTGGT CTATTGGT CTATTGGT TTGTTTTCCG TGGAGCTTTA CAATAAATGA TTCAGCGCTG	DNESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712 C: CDS N: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA CTCTCACCAG CCCGAGGTT CTGCCGAGGTT CTGCCGAGGT CTGCCGAGGTT CTGCCGCGCC TAATCCTAAT GTATACTGCT	74 EQ ID NO: 6 GAGGCCCATC GCAGCGGCCA CAGATTGAGA TTCTGGAATC CGCTCCGGCC GTGGTCCACC	AGTTTATTAA ACTCTGCCCT TCCTCATTAA ATCCCATCCA GCTGTCTTGA GCTGCTTCCT GGCCGGCTGC	GGCGAATGCT CCTAATGCAA GCGTGTCATC AATTGGCGCC CCGCCCTGTT TAATTGCCGG	120 180 240 300 360 420
	358 360 362 364 369 370 371 375 377 378 382 384 386 390 394 398	(ii) MO (iii) HY (iv) AN (vi) OR (ix) FE ((ix) FE (Carrier Carrier Carri	C) STRANDED D) TOPOLOGY DLECULE TYPE POTHETICAL: ITI-SENSE: N GINAL SOUE ATURE: A) NAME/KEY B) LOCATION ATURE: A) NAME/KEY B) LOCATION CATURE: A) NAME/KEY CATATGAGCA GGCCTTTTCT TTGTTTTCCG TGGAGCTTTA CAATAAATGA TTCAGCGCTG TGCGCGGGCT	DNESS: HEV C: linear C: DNA : NO NO RCE: C: CDS N: 285106 C: CDS N: 5147712 C: CDS N: 510654 CRIPTION: SI CGATGCCATG GGCTGCTCTA CTCTCACCAG CCCCGAGGTT CTGCCGCGCC TAATCCTAAT GTATACTGCT TCCCGCTGCT	74 EQ ID NO: 6 GAGGCCATC GCAGCGGCA CAGATTGAGA TTCTGGAATC CGCTCCGGCC GTGGTCCACC CCCACTCGGG	: AGTTTATTAA ACTCTGCCCT TCCTCATTAA ATCCCATCCA GCTGTCTTGA GCTGCTTCCT GGCCGGCTGC ACTGCCTCGA	GGCGAATGCT CCTAATGCAA GCGTGTCATC AATTGGCGCC CCGCCCTGTT TAATTGCCGG CGGGTTTTCT	120 180 240 300 360





DATE: 12/04/2001

TIME: 12:15:48

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/851,410A

Input Set : N:\Crf3\RULE60\09851410A.txt
Output Set: N:\CRF3\12042001\1851410A.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:] L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:] L:8) M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=1 L:251 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=3 L:273 M:246 W: Invalid value of Alpha Sequence Header Field, [MCLECULE TYPE:], SeqNc=4 L:294 M:246 W: Invalid value of Alpha Sequence Header Field, [MCLECULE TYPE:], SeqNo=5 L:367 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:367 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=6 L:360 M:246 W: Invalid value of Alpha Sequence Header Field, [MCLECULE TYPE:], SeqNo=6 L:1142 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1142 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=10 L:1135 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=10 L:1403 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1403 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=11 L:1396 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=11 L:1477 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1477 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=12 L:1470 M:246 W: Invalid value of Alpha Sequence Header Field, [MOLECULE TYPE:], SeqNo=12 L:1651 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1651 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=17 L:1680 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1680 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=18 L:1708 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1708 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=19 L:1736 M:220 C: Keyword misspelled or invalid format, [(C) STRANDEDNESS:] L:1736 M:246 W: Invalid value of Alpha Sequence Header Field, [STRANDEDNESS:], SeqNo=20